

OnCommand™ System Manager 2.0.1

Release Notes

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System Manager 2.0.1 Release Notes

The System Manager 2.0.1 release notes describe some changes and enhancements since the previous release of System Manager, as well as some bug fixes and known issues.

Understanding System Manager

System Manager enables you to manage storage systems and storage objects, such as disks, volumes, and aggregates. System Manager is a Web-based graphical management interface to manage common functions related to storage systems from a Web browser.

You can use System Manager to manage storage systems and HA configurations running the following versions of Data ONTAP:

- Data ONTAP 7.x (starting from 7.2.3)
- Data ONTAP 8.x 7-Mode
- Data ONTAP 8.1 Cluster-Mode

Note: In the Data ONTAP 8.x 7-Mode product name, the term *7-Mode* signifies that the 8.x release has the same features and functionality found in the prior Data ONTAP 7.1, 7.2, and 7.3 release families.

You can also manage V-Series systems.

System Manager enables you to perform many common tasks such as the following:

- Configure and manage storage objects, such as disks, aggregates, volumes, qtrees, and quotas.
- Configure protocols such as CIFS and NFS and provision file sharing.
- Configure protocols such as FC and iSCSI for block access.
- Create and manage vFiler units.
- Set up and manage SnapMirror relationships.
- Manage HA configurations and perform takeover and giveback operations.
- Perform cluster management, storage node management, and Vserver management operations in a cluster environment.
- Create and configure Vservers, manage storage objects associated with a Vserver, and manage Vserver services.

Note: System Manager replaces FilerView as the tool to manage storage systems running Data ONTAP 8.1.

New features and enhancements

System Manager 2.0R1 includes new features such as management of clusters and SnapMirror relationships, and enhancements such as a Web-based graphical management interface and support on Linux.

New features

Cluster-Mode support	You can manage clusters and storage nodes, and perform Vserver operations in a cluster environment.
Vserver support	You can create Vservers and configure the services and data access protocols for a Vserver to serve data. You can also configure services such as NIS and DNS, and monitor network configuration.
SnapMirror management	You can create and manage SnapMirror relationships to replicate data from specified source volumes or qtrees to specified destination volumes or qtrees, respectively.
SnapLock support	You can manage SnapLock volumes and aggregates for storage systems running Data ONTAP 7-Mode.
SyncMirror support	You can create SyncMirror aggregates on storage systems running Data ONTAP 7-Mode. SyncMirror provides synchronous mirroring of data, which is implemented at the RAID level.
System and performance dashboard	You can monitor and receive notification of key health-related events and performance statistics for a storage system. You can proactively manage your system by monitoring a single, integrated health status. If the status is in degraded status, you can view the specific individual health monitors to view details about the problem, including the probable cause and recommended recovery actions.
Volume movement	You can move a volume from one aggregate to another for capacity utilization, improved performance, and to satisfy service-level agreements on storage systems running Data ONTAP Cluster-Mode. There is no disruption to client access when the system is moving the volume.
vFiler unit management	You can configure and manage vFiler units. You can perform tasks such as creating, starting or stopping, and deleting vFiler units.
NDMP support	You can enable and disable NDMP services, and stop non-responsive NDMP sessions. Enabling the NDMP service on your storage system allows NDMP-compliant data protection applications to communicate with storage systems running Data ONTAP 8.1.

Enhancements

Web-based graphical management interface	You can manage storage systems, storage objects (such as disks, volumes, and aggregates), and storage system resources using a graphical user interface from a Web browser.
Linux platform support	System Manager supports Linux operating system in addition to Windows operating system.
Dashboard	You can view data related to aggregates and volumes based on the utilization of their space.
Aggregate, volume, LUN, and quota management	System Manager provides enhanced management of storage objects.
Storage efficiency	You can use compression to reduce the physical capacity required to store data on storage systems and improve storage efficiency.
FlexClone support: splitting FlexClone volumes	You can split the FlexClone volume from its parent. After the split, the FlexClone volume becomes a normal flexible volume.

License requirements

System Manager is an unlicensed application and is free to download, install, and use. However, you require storage system software licenses to enable certain services and features on your storage system, such as HA pairs (active/active configuration) and NFS.

Many of the software licenses you require for your storage system services and features are installed on the storage system at the factory.

Note: For HA pair, it is recommended that you install licenses on both systems.

System requirements for System Manager

You must ensure that you have the required host system configuration, operating system, and browser to run the System Manager software.

Your host system must meet the following minimum requirements:

- Pentium x86 processor
- 1-GB RAM
- 40-GB HDD
- Wireless or Ethernet connection to the network
- A 32-bit Windows or Linux operating system or a 64-bit Windows operating system
- Adobe Flash Player 8.0 or later
- 32-bit Oracle Java Runtime Environment (JRE) 6

Note: It is best to use 32-bit Java Runtime Environment (JRE) 6 update 24 or later.

Your Windows system must be running one of the following:

- Windows XP
- Windows Vista
- Windows 7
- Windows Server 2003
- Windows Server 2008

Your Linux system must be running one of the following:

- Red Hat Enterprise Linux 5
- SUSE Linux Enterprise Server 11

Your Linux system must have a graphical desktop environment, such as GNOME or KDE, installed.

Your Web browser must be one of the following:

- 32-bit Internet Explorer 7.0 or 8.0 (for Windows)
- 32-bit Mozilla Firefox 3.0, 3.5, 3.6, 8.0, or 9.0 (for both Windows and Linux)

Note: You should use the resolution 1280 by 1024 pixels for optimal viewing.

Your storage systems must be running any of the following versions of Data ONTAP:

- Data ONTAP 7G (starting from 7.2.3)
- Data ONTAP 8.x 7-Mode
- Data ONTAP 8.1 Cluster-Mode

For the latest information about currently supported systems, see the Interoperability Matrix.

Related information

Interoperability Matrix Tool: <http://support.netapp.com/matrix/>

System Manager 2.0.1 fixed issues

Some known issues are fixed in System Manager 2.0.1.

For more information about an individual bug, see the Bug ID in Bugs Online on the NetApp Support Site.

Related information

[Bugs Online - support.netapp.com/NOW/cgi-bin/bol/](http://support.netapp.com/NOW/cgi-bin/bol/)

System Manager does not display Data ONTAP 8.1 licenses correctly (548923)

When you use System Manager to manage storage systems that have been upgraded to Data ONTAP 8.1 7-Mode, System Manager treats the FC, iSCSI, and MultiStore licenses as disabled. As a result, the FC and iSCSI protocols and the MultiStore feature are not visible in the navigation pane and you cannot use them.

Storage system information not loaded until the SystemManager.config file is deleted (546876)

If you enter some HTTP encoded characters at the end of a password, the password field in the configuration file is corrupted. Therefore, when you launch System Manager, information about storage systems is not loaded unless the SystemManager.config file is deleted.

You can use the following HTTP encoded characters at the end of a password:

- Ampersand (&)
- Quotation marks ("")
- Lesser than symbol (<)
- Greater than symbol (>)
- Apostrophe (')
- Percent symbol (%)
- Caret symbol (^)

Default export policy for a Vserver allows root access to all clients

When you create a Vserver through System Manager, the default export policy for that Vserver allows root access to all clients in a NAS environment. This might lead to security problems.

Export policy created through the Provision Storage for VMware wizard is not used

In storage systems running Data ONTAP 8.1 Cluster-Mode, the Provision Storage for VMware wizard does not associate the new export policy with the volume that is created for NFS access. Instead, the default export policy is associated with the volume.

Managing interfaces from System Manager might affect network access (583336)

When you configure network management by using System Manager and if the size of the `/etc/rc` file exceeds 2 KB, the file is updated incorrectly. As a result, access to the network might be lost after the storage system is rebooted or after a giveback operation.

Cannot modify the MTU size (555036)

You cannot modify the MTU size of virtual interfaces (vifs) or VLAN interfaces from System Manager, if you created the network interfaces by using the command-line interface.

CIFS servers are deleted without adequate warning

When you want to reconfigure the CIFS service by using the CIFS Setup wizard, you must select the check box to stop the CIFS service and delete all the shares and home directories. As a result, all the

shares and home directories are deleted. However, you cannot undo the deletion of the shares and directories even if you cancel the operation.

System Manager displays incorrect Snapshot copy schedule

If you set the hourly Snapshot copy schedule to zero, System Manager displays zeros instead of the actual values in the weekly, nightly, and hourly Snapshot schedules.

System Manager corrupts the `hosts.equiv` file and displays incorrect content (560098 and 577735)

System Manager displays incorrect content of the `hosts.equiv` file if it contains UNIX host entries without their corresponding user IDs. If you edit the `hosts.equiv` file through System Manager, the `hosts.equiv` file is corrupted.

When you use System Manager to edit the `hosts.equiv` file, System Manager does not add a new line after the last host entry. As a result, the `rsh` command fails for the last host entry.

If the `hosts.equiv` file contains UNIX host entries without their corresponding user IDs and you update the file through System Manager, all such entries are deleted.

Quotation marks are added to certain AutoSupport options (549287)

During an edit operation, if the **autosupport.support.proxy**, **autosupport.noteto**, or **autosupport.to** fields are empty, System Manager adds quotation marks to the fields. As a result, AutoSupport notifications are not sent.

Traphost might be deleted when the IP address is modified

When you modify the IP address of a traphost from System Manager, the traphost is deleted.

Disks ownership displayed incorrectly

In storage systems running Data ONTAP 8.1 7-Mode, the disks that are owned by the partner node of an HA pair are incorrectly displayed as unowned disks in the Storage Capacity panel of the Dashboard window.

Note: Unowned disks in storage systems running Data ONTAP 7.3.x are not displayed in the graph in the Storage Capacity panel of the Dashboard window.

Snapshot copy date and time displayed incorrectly

By default, System Manager uses the UTC time zone instead of the storage system time zone. As a result, in storage systems running Data ONTAP 7.2.x, System Manager incorrectly displays the date and time of a Snapshot copy.

Known issues with Data ONTAP

Some unexpected and potentially undesired behaviors in Data ONTAP are known to affect functionality in this release of System Manager.

Incorrect error message is displayed when disabling thin provisioning in LUNs

When you disable thin provisioning for a LUN in storage systems running Data ONTAP 7.3.x and 8.0.x, and if there is insufficient space in the containing aggregate, the following error message is displayed: `Unknown error: 10008`.

Workaround

None.

Cannot change or remove the vFiler unit IP address

When you try to remove or change the IP address of a vFiler unit on storage systems running Data ONTAP 7.3.x, an error message is displayed and the operation fails.

Workaround

Remove or change the IP address of the vFiler unit from the command-line interface.

System Manager 2.0.1 known issues and limitations

You must be aware of the known issues and limitations, and the workarounds for each of the System Manager features so that you can use the product more effectively.

For more information about an individual bug, see the Bug ID in Bugs Online on the NetApp Support Site.

Related information

[Bugs Online: support.netapp.com/NOW/cgi-bin/bol/](http://support.netapp.com/NOW/cgi-bin/bol/)

Cannot select intercluster port in the Cluster Peer wizard

The Cluster Peer wizard does not provide the option to select an intercluster port.

Workaround

You can create a logical interface (LIF) by using Element Manager:

1. From the **Home** tab, double-click the appropriate storage system.
2. Launch Element Manager by clicking **Cluster > Advanced**.
3. In Element Manager, click **Network > Interface > Manage > Create**.

System Manager does not reflect the storage system time if Daylight Savings Time is activated

When viewing events, jobs, system health, license and so on, in the respective pages in System Manager, the **Time Stamp** field might show a time difference of one hour from the storage system time. This occurs if Daylight Savings Time is activated.

Workaround

None.

Add Disk to Aggregate dialog box does not display spare BSAS disks

When you click **Add Disks** or click **Mirror** in the Aggregate window, the dialog box does not display the spare BSAS disks. This occurs when options `rpm.fcal.enable` is set to off.

Workaround

Add the disks by using the `aggr add` command from the command-line interface.

Add Disks to Aggregate dialog box does not display spare mixed disk types

If a plex contains mixed disk types, you cannot add a spare mixed disk type to an aggregate from the Add Disks to Aggregate dialog box of the Aggregates window.

Workaround

Add the spare disks to an aggregate from the Disks window.

Storage controller tab stops responding while loading

For systems running Data ONTAP Cluster-Mode, the **Storage Controller** tab in the left navigation pane stops responding if you try to access it while it is loading. You cannot access any area under the **Storage Controller** tab.

Workaround

Refresh the storage system tab and wait until the tab completes loading.

Inconsistent behavior while associating ACLs for shares with non-Unicode share name

For storage systems running Data ONTAP 8.0 or earlier, System Manager behaves inconsistently if you try to edit the share permissions for a share name that contains a non-Unicode character. Sometimes, ACLs are not associated with the share.

Workaround

Edit the share permissions by entering the following command from the command-line interface:

```
cifs access share_name {user|group} rights
```

Data ONTAP versions not validated while creating SnapMirror relationships

System Manager does not validate Data ONTAP versions while creating SnapMirror relationships. For SnapMirror volume replication, the destination system must use a version of Data ONTAP that is the same as or later than that of the SnapMirror source system.

System Manager creates the SnapMirror relationship and updates the `/etc/snapmirror.conf` file with an entry for this relationship. However, the initialization of the destination fails.

Workaround

Before creating a SnapMirror relationship, ensure that the destination storage system is running a Data ONTAP version that is the same version or a later version than that of the source storage system.

System Manager cannot delete AutoSupport email address if there is only one entry

If there is only one email address specified as the AutoSupport message recipient in the Edit AutoSupport Settings window, you cannot delete the entry through System Manager. Although the delete operation is completed successfully, the email address is not deleted.

Workaround

Use the command-line interface to delete the email address.

Cannot create qtrees on volumes that are owned by a vFiler unit

By using System Manager, you cannot create qtrees on volumes that are owned by a vFiler unit.

Workaround

None.

Editing a SnapMirror relationship from a source system deletes options in snapmirror.conf

When you edit a SnapMirror relationship from a source system, the configured options for the relationship in the `snapmirror.conf` file are deleted.

The possible options are as follows:

- `cksum`
- `tries`
- `ignore_atime`
- `wsize`
- `visibility_interval`
- `semi-sync`
- `connection_mode`
- `compression`
- `sync`

For more information about options relevant to your storage system, see the Data ONTAP documentation available on the NetApp Support Site.

Workaround

Use the command-line interface on the destination system to edit the `snapmirror.conf` file.

Related information

Data ONTAP 7-Mode Information Library page: http://support.netapp.com/NOW/knowledge/docs/ontap/ontap_index.shtml

Cannot create an aggregate from the Disks page for Data ONTAP-v storage systems

System Manager does not allow you to create an aggregate with RAID0 option from the Disks page, although the Data ONTAP-v storage system is configured for RAID0.

Workaround

Create the aggregate from the Aggregates page.

Cannot specify the management IP address of the partner when adding an HA pair (547278)

When adding an HA pair, System Manager automatically discovers the IP address of the partner node and adds it. Management of the partner node might fail if the automatically discovered IP address is not a management IP address.

Workaround

Specify the management IP address of the partner against the fully qualified domain name in the hosts file of the system in which you have installed System Manager.

Cloning a LUN fails if the containing volume is created during the LUN creation operation

The LUN clone operation fails if you have created the LUN containing volume during LUN creation. The volume does not have sufficient space to accommodate the LUN clone and the LUN clone operation fails.

Workaround

Increase the size of the volume so that it can accommodate the size of the LUN clone that you create.

Cannot connect to the storage system if nondefault ports are configured for HTTP and HTTPS

System Manager cannot connect to a storage system if the storage system is configured to use nondefault ports for HTTP and HTTPS.

Workaround

Ensure that the storage system is configured to use the following default ports:

- Port 80 for HTTP
- Port 443 for HTTPS

Change in the default port number of the KDC server not saved

If you modify the default port number of the KDC server or the IP address of the password server, at the cluster level, the Kerberos Realm Create wizard does not save the change.

The Kerberos Realm Edit wizard does not complete the edit operation

At the cluster level, if you do not provide the Active Directory server name and IP address, or if you change the KDC vendor, the Kerberos Realm Edit wizard does not complete the edit operation.

Managing interfaces through the command-line interface and System Manager might affect network access

If you configure network management by using both the command-line interface and System Manager, the network configuration is not saved. As a result, access to the network might be lost after the storage system is rebooted or after a giveback operation.

Cannot create a support bundle on systems running Windows 7

You cannot create a support bundle on a system that is running Windows 7 unless you have the right privileges.

Workaround

Right-click the System Manager icon on your desktop, select the **Run as Administrator** option, and then create the support bundle.

Incorrect message displayed while configuring AutoSupport emails to multiple recipients (508249)

In storage systems running Data ONTAP 8.0 or 8.0.1 7-Mode, when you specify multiple email recipients to receive an AutoSupport notification, although the operation is successful, System Manager displays a message that the setup has failed.

System Manager operations might fail due to network issues

If System Manager is running over a network that has latency issues, data packets might be dropped and System Manager operations might fail.

Workaround

Refresh your browser and try the operation again.

Cannot schedule the automatic creation of Snapshot copies

You cannot set up a schedule for creating automatic Snapshot copies of a volume in storage systems running Data ONTAP 7.2.3 and 7.2.4 from System Manager. This is because the **TimeZone** field of the Configure Volume Snapshot Copies dialog box does not display information about the time zone of the storage system.

Workaround

Schedule the automatic creation of Snapshot copies from the command-line interface.

Incorrect display of supported operating system type during LUN creation

In storage systems running Data ONTAP 7.2.3, 7.2.4, or 7.2.5, some unsupported operating system (OS) types are incorrectly displayed as supported OS types. If you select an unsupported OS type such as `solaris_efi` or `windows_2008`, the LUN creation operation fails.

Workaround

None.

FC/FCoE adapter might go offline after you modify the adapter speed (588316)

When you modify the FC/FCoE adapter speed, System Manager takes the adapter offline, modifies the speed, and brings the adapter online. However, if you specify an unavailable adapter speed, the operation fails and the adapter remains offline.

Workaround

Manually bring the FC/FCoE adapter online from the **Status** menu.

For more information about the available adapter speeds, see the Data ONTAP documentation.

Spare disks not displayed in the Add Disks to Aggregate dialog box

In storage systems running Data ONTAP 7.2.3 or 7.2.4, the Add Disks to Aggregate dialog box does not display spare disks. As a result, you cannot add disks to the aggregate from the Aggregates page.

Workaround

Add the spare disks to an aggregate from the Disks window.

Cannot edit the date and time of the storage system

In storage systems running Data ONTAP 7.2.7 or earlier, if you change the system time zone and select the option to automatically synchronize the system time using SNTP, System Manager displays an error message. As a result, you cannot edit the date and time of your storage system.

Workaround

Modify the date and time settings of your storage system from the command-line interface.

Changes to published documentation

There are changes to the documentation provided with this release of System Manager. This information is new and it should be added to the documentation.

Update to installing and uninstalling System Manager 2.0.1 on Linux

Although the "Installing System Manager 2.0.1 on Linux" and "Uninstalling System Manager 2.0.1 on Linux " topics in the *Quick Start Guide* mention that you can install or uninstall System Manager 2.0.1 from the desktop, the operation might fail if you choose this option. You should install or uninstall System Manager 2.0.1 only by using the `rpm` command.

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